

Form PTO-1449 (modified)				Application No.: 10/042,675			
LIST OF PRIOR ART CITED BY APPLICANT				Filing Date: January 9, 2002			
4 <sup>th</sup> INFORMATION DISCLOSURE STATEMENT				First Named Inventor: John E. Jones			
				Group Art Unit: 2621			
				Examiner: Abolfazl Tabatabai			
				Attorney Docket No.: 47171-00350USC1			
U.S. PATENT DOCUMENTS							
Examiner Initial	Ref	Document Number	Date	Name	Class	Sub-Class	Filing Date (if Application)
A-T	D1	US2001/0006557A1	07/05/01	Mennie et al.	382	135	
	D2	US2001/0035603A1	11/01/01	Graves et al.	271	265.01	
	D3	US2002/0085745A1	07/04/02	Jones et al.	382	135	
	D4	US2003/0009420A1	01/09/03	Jones	705	39	
	D5	US2003/0015395A1	01/23/03	Hallowell et al.	194	206	
	D6	US2003/0015396A1	01/23/03	Mennie	194	206	
	D7	US2003/0059098A1	03/27/03	Jones et al.	382	135	
	D8	US2003/0062242A1	04/03/03	Hallowell et al.	194	302	
	D9	US2003/0081824A1	05/01/03	Mennie et al.	382	135	
	D10	US2003/0108233A1	06/12/03	Rateman et al.	382	135	
	D11	4,040,010	08/77	Crane	340	146.354	
	D12	4,180,798	12/79	Komori et al.	340	146.3H	
	D13	4,326,636	04/82	Braun et al.	364	408	
	D14	4,680,803	07/87	Dilella	382	9	
	D15	4,948,174	08/14/90	Thomson et al.	283	58	
	D16	5,105,364	04/92	Kawamura et al.	364	478	
	D17	5,237,159	08/17/93	Stephens et al.	235	379	
	D18	5,590,196	12/31/96	Moreau	380	18	
	D19	5,594,225	01/14/97	Botvin	235	379	
	D20	5,832,463	11/1998	Funk	705	35	
	D21	6,119,946	09/19/00	Teicher	235	492	
	D22	6,141,438	10/31/00	Blanchester	382	140	
	D23	6,415,983	07/09/02	Ulv et al.	235	487	
	D24	6,493,461	12/10/02	Mennie et al.	382	135	
✓	D25	6,539,104	03/25/03	Rateman et al.	382	135	
EXAMINER <i>Abolfazl Tabatabai</i>				DATE CONSIDERED <i>4/14/05</i>			

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Examiner Initial	Ref	Document Number	Date	Name	Class	Sub-Class	Filing Date (if Application)
	D26	6,560,355	05/06/03	Graves et al.	382	135	
<b>FOREIGN PATENT DOCUMENTS</b>							
Examiner Initial	Ref	Document Number	Date	Country	Class	Sub-Class	Translation Yes/No
A-T	E1	EP 0593209	04/20/94	Europe	J04L	29/06	N/A
	E2	EP 0616296	09/21/94	Europe	G06K	9/20	N/A
	E3	EP 0984410	03/08/00	Europe	G07F	19/00	N/A
	E4	WO 87/06041	10/87	WIPO	G07D	7/00	N/A
	E5	WO 98/26364	06/18/98	WIPO	G06F	17/60	N/A
	E6	WO 00/58876	10/05/00	WIPO	G06F	17/60	N/A
<b>OTHER DOCUMENTS (including author, title, date, pertinent pages, etc.)</b>							
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Page 3 of 3

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PAGE 4/26 \* RCVD AT 4/14/2005 2:20:24 PM [Eastern Daylight Time] \* SVR:USPTO-EFXXF-1/25 \* DNIS:2737458 \* CSID:2148554110 \* DURATION (mm-ss):08-24

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A-T	A1	Des. 427,623	07/2000	Kuwada et al.	D18	3		
	A2	Re. 31,692	10/1984	Tyburski et al.	382	7		
	A3	3,443,107	05/1969	Modglin	250	219		
	A4	3,656,615	04/1972	Ptacek	209	73		
	A5	3,725,667	04/1973	Schwarz	250	219 DQ		
	A6	3,782,543	01/1974	Martelli et al.	209	75		
	A7	3,930,582	01/1976	Gartner et al.	209	88		
	A8	3,966,047	06/1976	Steiner	209	75		
	A9	4,023,011	05/1977	Nakajima et al.	235	61.11R		
	A10	4,166,945	09/1979	Inoyama et al.	235	379		
	A11	4,187,463	02/1980	Kivenson	324	228		
	A12	4,231,014	10/1980	Ponzio	340	146.3 Y		
	A13	4,237,378	12/1980	Jones	250	223R		
	A14	4,441,205	04/1984	Berkin et al.	382	8		
	A15	4,449,240	05/1984	Yoshida	382	15		
	A16	4,584,529	04/1986	Aoyama	324	261		
	A17	4,590,606	05/1986	Rohrer	382	7		
	A18	4,602,332	07/1986	Hirose et al.	364	408		
	A19	4,605,926	08/1986	Onishi et al.	340	825.3		
	A20	4,686,357	08/1987	Douno et al.	235	379		
	A21	4,694,963	09/1987	Takesako	209	534		
	A22	4,764,725	08/1988	Bryce	324	234		
	A23	4,817,176	03/1989	Marshall et al.	382	43		
	A24	4,905,839	03/1990	Yuge et al.	209	534		
	V	A25	4,947,441	08/1990	Hara et al.	382	7	
		A26	5,251,738	10/1993	Dabrowski	194	206	

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A-T	A27	5,279,403	01/1994	Harbaugh et al.	194	207		
	A28	5,308,992	05/1994	Crane et al.	250	556		
	A29	5,368,147	11/1994	McInke et al.	194	206		
	A30	5,394,969	03/1995	Harbaugh	194	206		
	A31	5,399,874	03/1995	Gonsalves et al.	250	556		
	A32	5,402,895	04/1995	Mikkelsen et al.	209	534		
	A33	5,417,316	05/1995	Harbaugh	194	206		
	A34	5,418,458	05/1995	Jeffers	324	235		
	A35	5,419,424	05/1995	Harbaugh	194	206		
	A36	5,421,443	06/1995	Hatamachi et al.	194	206		
	A37	5,434,427	07/1995	Crane et al.	250	556		
	A38	5,468,971	11/1995	Ebstein et al.	250	556		
	A39	5,476,169	12/1995	Takarada et al.	194	207		
	A40	5,481,377	01/1996	Udagawa et al.	358	501		
	A41	5,523,575	06/1996	Machida et al.	250	208.1		
	A42	5,545,885	08/1996	Jagielinski	235	449		
	A43	5,657,846	08/1997	Schwartz	194	206		
	A44	5,719,948	02/1998	Liang	382	112		
	A45	5,761,089	06/1998	McInerney	364	550		
	A46	5,781,654	07/1998	Carney	382	137		
	A47	5,832,463	11/1998	Funk	705	35		
	A48	5,940,844	08/1999	Cahill et al.	707	526		
	A49	6,038,553	03/2000	Hyde, Jr.	705	45		
	A50	6,283,366	09/2001	Hills et al.	235	379		
	A51	6,354,491	03/2002	Nichols et al.	235	379		
	V	A52	6,473,519	10/2002	Pidhurny et al.	382	140	

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	A53						
	A54						
<b>FOREIGN PATENT DOCUMENTS</b>							
Examiner Initial	Ref.	Document Number	Date	Country	Class	Sub-Class	Translation Yes/No
A-T	B1	EP 0 071 421	02/1983	Europe	G07D	7/00	N/A
	B2	EP 0 083 062	07/1983	Europe	G07D	7/00	N/A
	B3	EP 0 548 142 B2	09/1999	Europe	G06K	19/16	N/A
	B4	EP 0 612 042 A3	08/1994	Europe	G07D	7/00	N/A
	B5	EP 0 612 042 B1	06/1998	Europe	G07D	7/00	N/A
	B6	EP 0 671 696	09/1995	Europe	G06F	17/30	N/A
	B7	EP 0 686 292 B1	07/2000	Europe	G07D	7/00	N/A
	B8	EP 0 708 419 B1	01/2000	Europe	G07D	7/00	Claims
	B9	EP 0 760 987 B1	09/2000	Europe	G07D	7/00	Claims
	B10	EP 0 824 736 B1	03/2000	Europe	G07D	7/00	Claims
	B11	WO 92/14221	08/1992	International	G07D	7/00	Abstract
	B12	WO 95/19019	07/1995	International	G07D	7/00	N/A
	B13	WO 97/29459	08/1997	International	G07D	7/00	N/A
	B14	WO 97/30422	08/1997	International	G07D	7/00	N/A
	B15	JP 62-220843	09/1987	Japan	G01N	21/89	Yes
	B16	JP 2-12492	01/1990	Japan	G07D	7/00	Yes
✓	B17	GB 2 038 063	07/1980	U.K.	G07D	7/00	N/A
<b>OTHER DOCUMENTS (including author, title, date, pertinent pages, etc.)</b>							
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	C1						
	C2						

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Form PTO-1449 (modified)	Atty. Docket No. 47171-00350USC1	Serial No. 10/D42,675
List of Patents and Publications for Applicant's 5 <sup>TH</sup> INFORMATION DISCLOSURE STATEMENT	Applicant John E. Jones et al.	
Page 1 of 1	Filing Date January 9, 2002	Group 2621

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Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date if App.
A-T	D1	2,936,684	05/17/1960	Simjian	95	1.1	11/01/1957
	D2	3,104,314	09/17/1963	Simjian	235	61.9	11/25/1959
	D3	3,148,932	09/15/1964	Simjian	346	22	07/07/1961
	D4	3,150,912	09/29/1964	Simjian	346	22	11/19/1962
	D5	4,275,874	06/30/1981	DiBlasio	271	4	02/21/1979
	D6	4,420,153	12/13/1983	Winkler et al.	271	304	09/19/1980
	D7	4,743,743	05/10/1988	Fukatsu	235	379	03/24/1986
	D8	5,199,543	04/06/1993	Kamagami et al.	194	207	08/20/1991
	D9	5,265,008	11/23/1993	Benton et al.	364	408	06/20/1991
	D10	5,615,280	03/25/1997	Izawa et al.	382	135	08/10/1994
	D11	5,678,046	10/14/1997	Cahill et al.	395	616	05/05/1995
	D12	5,727,667	03/17/1998	Nye	194	207	11/06/1995
	D13	5,918,748	07/06/1999	Clark et al.	209	534	07/01/1997
✓	D14	5,982,918	11/09/1999	Mennie et al.	382	135	05/13/1996

**Foreign Patent Documents**

Exam. Init.	Ref. Des.	Document Number	Date	Country	Class	Sub Class	Translation Yes/No

**Other Art (Including Author, Title, Date Pertinent Pages, Etc.)**

Exam. Init.	Ref. Des.	Citation

EXAMINER:

Abolfazl Tahatabai

DATE CONSIDERED:

4/14/05

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Page 1 of 3	Filing Date: January 9, 2002	Group: 2621

U.S. Patent Documents							
Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date if App.
A-T	A226	US2001/0019624A1	09/06/01	Rateman et al.	382	135	
	A227	US2002/0001393A1	01/03/02	Jones et al.	382	100	
	A228	US2002/0020603A1	02/21/02	Jones et al.	194	346	
	A229	US2002/0056605A1	05/16/02	Mazur et al.	194	207	
	A230	US2002/0085245A1	07/04/02	Mennie et al.	358	498	
	A231	US2002/0103757A1	08/01/02	Jones et al.	705	45	
	A232	US2002/0104785A1	08/08/02	Klein et al.	209	534	
	A233	US2002/0107801A1	08/08/02	Jones et al.	705	45	
	A234	US2002/0118871A1	08/29/02	Jones et al.	382	137	
	A235	US2002/0122580A1	09/05/02	Jones et al.	382	137	
	A236	US2002/0126885A1	09/12/02	Mennie et al.	382	135	
	A237	US2002/0126886A1	09/12/02	Jones et al.	382	135	
	A238	US2002/0131630A1	09/19/02	Jones et al.	382	137	
	A239	US2002/0136442A1	09/26/02	Jones et al.	382	135	
	A240	US2002/0145035A1	10/10/02	Jones	235	379	
	A241	US2002/0154804A1	10/24/02	Jones et al.	382	135	
	A242	US2002/0154805A1	10/24/02	Jones et al.	382	135	
	A243	US2002/0154806A1	10/24/02	Jones et al.	382	135	
	A244	US2002/0154807A1	10/24/02	Jones et al.	382	135	
	A245	US2002/0154808A1	10/24/02	Jones et al.	382	135	
	A246	4,109,238	08/22/78	Creekmore	340	149	
	A247	4,685,141	08/04/87	Hoque et al.	382	7	
	A248	5,692,067	11/25/97	Rateman et al.	382	135	
	A249	5,704,491	01/06/98	Graves	209	534	
	A250	5,724,438	03/03/98	Graves	382	135	
	A251	5,751,840	05/12/98	Rateman et al.	382	135	
	A252	5,751,842	05/12/98	Riach et al.	382	137	
	A253	5,754,673	05/19/98	Brooks et al.	382	112	
	A254	5,790,693	08/04/98	Graves et al.	382	135	
V	A255	5,806,650	09/05/98	Mennie et al.	194	206	

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Page 2 of 3	Filing Date: January 9, 2002	Group: 2621

<b>A-T</b>	A256	5,815,592	09/29/98	Mennie et al.	382	135	
	A257	5,822,448	10/13/98	Graves et al.	382	135	
	A258	5,832,104	11/03/98	Graves et al.	382	135	
	A259	5,867,589	02/02/99	Graves et al.	382	135	
	A260	5,870,487	02/09/99	Graves et al.	382	135	
	A261	5,875,259	02/23/99	Mennie et al.	382	135	
	A262	5,905,810	05/18/99	Jones et al.	382	135	
	A263	5,909,502	06/01/99	Mazur	382	135	
	A264	5,909,503	06/01/99	Graves et al.	382	135	
	A265	5,912,982	06/15/99	Munro et al.	382	135	
	A266	5,938,044	08/17/99	Weggesser	209	534	
	A267	5,940,623	08/17/99	Watts et al.	395	712	
	A268	5,943,655	08/24/99	Jacobsen	705	30	
	A269	5,960,103	09/28/99	Graves et al.	382	135	
	A270	5,966,456	10/12/99	Jones et al.	382	135	
	A271	5,982,918	11/09/99	Mennie et al.	382	135	
	A272	5,992,601	11/30/99	Mennie et al.	194	207	
	A273	6,012,565	01/11/00	Mazur	194	207	
	A274	6,026,175	02/15/00	Rateman et al.	382	135	
	A275	6,028,951	02/22/00	Rateman et al.	382	135	
	A276	6,039,645	03/21/00	Mazur	453	10	
	A277	6,068,194	05/30/00	Mazur	235	492	
	A278	6,072,896	06/06/00	Graves et al.	382	135	
	A279	6,073,744	06/13/00	Rateman et al.	194	207	
	A280	6,074,334	06/13/00	Mennie et al.	493	438	
	A281	6,128,402	10/03/00	Jones et al.	382	135	
	A282	6,220,419	04/24/01	Mennie	194	207	
	A283	6,237,739	05/29/01	Mazur et al.	194	207	
	A284	6,241,069	06/05/01	Mazur et al.	194	207	
	A285	6,256,407	07/03/01	Mennie et al.	382	135	
	A286	6,278,795	08/21/01	Anderson et al.	382	135	
	A287	6,311,819	11/06/01	Stromme et al.	194	207	
<b>V</b>	A288	6,318,537	11/20/01	Jones et al.	914	346	

EXAMINER:

*Abel P. Z. Tabatabaie*

DATE CONSIDERED:

*4/14/04*

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A-T	A289	6,351,551	02/26/02	Munro et al.	382	135	
	A290	6,363,164	03/26/02	Jones et al.	382	135	
	A291	6,371,303	04/16/02	Klein et al.	209	534	
	A292	6,378,683	04/30/02	Mennie	194	207	
	A293	6,381,354	04/30/02	Mennie et al.	382	135	
	A294	6,398,000	06/04/02	Jenrick et al.	194	200	
	A295	6,459,806	10/01/02	Rateman et al.	382	135	
V	A296	6,460,705	10/08/02	Hallowell	209	534	

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INFORMATION DISCLOSURE STATEMENT — PTO-1449 (MODIFIED)

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LIST OF PRIOR ART CITED BY APPLICANT				Filing Date: January 9, 2002			
				First Named Inventor: John E. Jones			
				Group Art Unit: 2621			
				Examiner: Not Assigned			
Sheet 1 of 1				Attorney Docket No.: 47171-00350USC1			
U.S. PATENT DOCUMENTS							
Examiner Initial	Ref.	Document Number	Date	Name	Class	Sub-Class	Filing Date (if Application)
FOREIGN PATENT DOCUMENTS							
Examiner Initial	Ref.	Document Number	Date	Country	Class	Sub-Class	Translation Yes/No
A-T	B34	EP 0 718 809 A2	06/26/1996	Europe	G07D	7/00	N/A
OTHER DOCUMENTS (Including author, title, date, pertinent pages, etc.)							
Examiner Initial	Ref.	Document Information					
EXAMINER		Abel Pazl Tahatahei			DATE CONSIDERED 4/14/05		

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Sheet 1 of 1							
<b>U.S. PATENT DOCUMENTS</b>							
Examiner Initial	Ref.	Document Number	Date	Name	Class	Sub-Class	Filing Date (if Application)
A-T	A223	5,680,472	10/21/1997	Conant	382	135	
↓	A224	5,729,623	03/17/1998	Omatu et al.	382	155	
	A225	5,947,255	09/07/1999	Shimada et al.	194	207	
<b>FOREIGN PATENT DOCUMENTS</b>							
Examiner Initial	Ref.	Document Number	Date	Country	Class	Sub-Class	Translation Yes/No
<b>OTHER DOCUMENTS (including author, title, date, pertinent pages, etc.)</b>							
Examiner Initial	Ref.	Document Information					
<b>EXAMINER</b> <i>Apo/Pozl Tabatabaei</i> <b>DATE CONSIDERED</b> <i>4/14/05</i>							

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Sheet 1 of 13				Attorney Docket No.: 47171-00350USC1			
U.S. PATENT DOCUMENTS							
Examiner Initial	Ref.	Document Number	Date	Name	Class	Sub-Class	Filing Date (if Application)
A-T	A1	Dcs. 369,984	05/1996	Larsen	D10	97	
	A2	446,303	02/1891	Thompson			
	A3	2,669,998	02/1954	Buchholz	133	8	
	A4	2,750,949	06/1956	Kulo et al.	133	8	
	A5	2,835,260	05/1958	Buchholz	133	8	
	A6	3,246,295	04/1966	DeClaris et al.	382	56	
	A7	3,280,974	10/1966	Riddle et al.	209	111.8	
	A8	3,480,785	11/1969	Aufderheide	250	219	
	A9	3,496,370	02/1970	Haville et al.	250	219	
	A10	3,509,535	04/1970	Berube	340	149	
	A11	3,612,835	10/1971	Andrews et al.	235	61.11D	
	A12	3,618,765	11/1971	Syoassel et al.	209	122	
	A13	3,679,314	07/1972	Mustert	356	71	
	A14	3,715,031	02/1973	Okkonen	209	75	
	A15	3,764,899	10/1973	Peterson	324	61.R	
	A16	3,778,628	12/1973	Novak et al.	250	556	
	A17	3,798,603	03/1974	Wahlberg	340	149	
	A18	3,800,078	03/1974	Cochran et al.	178	7.1	
	A19	3,806,710	04/1974	Shigemori et al.	235	92	
	A20	3,815,021	06/1974	Kerr	324	61.R	
	A21	3,842,281	10/1974	Goodrich	250	461	
	A22	3,870,629	03/1975	Carter et al.	209	111.8	
	A23	3,906,449	09/1975	Marchak	340	149R	
	A24	3,976,198	08/1976	Carnes, Jr., et al.	209	111.7T	
	A25	4,041,456	08/1977	Ott et al.	382	135	

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Sheet 2 of 13				First Named Inventor: John E. Jones			
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				Attorney Docket No.: 47171-00350USC1			
U.S. PATENT DOCUMENTS (continued)							
Examiner Initial	Ref.	Document Number	Date	Name	Class	Sub-Class	Filing Date (if Application)
A-T	A26	4,096,991	06/1978	Iguchi	235	419	
	A27	4,114,804	09/1978	Jones et al.	235	476	
	A28	4,147,430	04/1979	Gorgone et al.	356	51	
	A29	4,179,685	12/1979	O'Maley	340	146.3H	
	A30	4,205,780	06/1980	Burns et al.	235	454	
	A31	4,250,806	02/1981	Boyson et al.	101	2	
	A32	4,255,651	03/1981	Phillips	235	92	
	A33	4,264,808	04/1981	Owens et al.	235	379	
	A34	4,277,774	07/1981	Fujii et al.	340	146.3	
	A35	4,283,708	08/1981	Lee	340	146.3Z	
	A36	4,288,781	09/1981	Sellner et al.	340	146.30	
	A37	4,302,781	11/1981	Ikeda et al.	358	486	
	A38	4,310,885	01/1982	Azcua et al.	364	405	
	A39	4,311,914	01/1982	Huber	250	556	
	A40	4,313,598	02/1982	DiBlasio	271	124	
	A41	4,321,672	03/1982	Braun et al.	364	408	
	A42	4,334,619	06/1982	Horino et al.	209	551	
	A43	4,337,864	07/1982	McLean	209	534	
	A44	4,348,656	09/1982	Gorgone et al.	340	146.3R	
	A45	4,349,111	09/1982	Shah et al.	209	534	
	A46	4,352,988	10/1982	Ishida	250	559	
	A47	4,355,300	10/1982	Weber	340	146.3C	
	A48	4,355,369	10/1982	Garvin	364	900	
✓	A49	4,356,473	10/1982	Freudenthal	340	146.3H	

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	Attorney Docket No.:	47171-00350USC1
Sheet 3 of 13		

**U.S. PATENT DOCUMENTS (continued)**

Examiner Initial	Ref.	Document Number	Date	Name	Class	Sub-Class	Filing Date (if Application)
A-T	A50	4,360,034	11/1982	Davila et al.	133	3	
	A51	4,381,447	04/1983	Horvath et al.	250	223	
	A52	4,383,540	05/1983	DeMeyer et al.	133	3H	
	A53	4,386,432	05/1983	Nakamura et al.	382	7	
	A54	4,396,902	08/1983	Warthan et al.	382	64	
	A55	4,416,299	11/1983	Bergman	133	1 R	
	A56	4,442,541	04/1984	Finkel et al.	382	7	
	A57	4,461,028	07/1984	Okubo	382	15	
	A58	4,464,786	08/1984	Nishito et al.	382	7	
	A59	4,464,787	08/1984	Fish et al.	382	7	
	A60	4,480,177	10/1984	Allen	235	379	
	A61	4,487,306	12/1984	Nao et al.	194	4	
	A62	4,490,846	12/1984	Ishida et al.	382	7	
	A63	4,513,439	04/1985	Gorgone et al.	382	7	
	A64	4,530,067	07/1985	Dorr	364	900	
	A65	4,538,719	09/1985	Gray et al.	194	100 A	
	A66	4,539,702	09/1985	Oka	382	7	
	A67	4,542,829	09/1985	Emery et al.	209	534	
	A68	4,543,969	10/1985	Rasmussen	133	3	
	A69	4,544,266	10/1985	Antes	356	71	
	A70	4,547,896	10/1985	Ohtombe et al.	382	7	
	A71	4,553,222	11/1985	Kurland et al.	364	900	
	A72	4,553,846	11/1985	Hilton et al.	356	429	
	A73	4,556,140	12/1985	Okada	194	4	

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				Attorney Docket No.: 47171-00350USC1			
Sheet 4 of 13							
U.S. PATENT DOCUMENTS (continued)							
Examiner Initial	Ref.	Document Number	Date	Name	Class	Sub-Class	Filing Date (if Application)
A-T	A74	4,558,224	12/1985	Gober	250	460.1	
	A75	4,559,451	12/1985	Curl	250	560	
	A76	4,563,771	01/1986	Gorgone et al.	382	7	
	A77	4,567,370	01/1986	Falls	250	461.1	
	A78	4,569,421	02/1986	Sandstedt	186	39	
	A79	4,582,172	04/1986	Takeuchi et al.	186	38	
	A80	4,587,412	05/1986	Apisdorf	235	449	
	A81	4,587,434	05/1986	Roes et al.	250	556	
	A82	4,592,090	05/1986	Curl et al.	382	7	
	A83	4,593,184	06/1986	Bryce	2235	449	
	A84	4,594,644	06/1986	Hashimoto	364	405	
	A85	4,611,345	09/1986	Ohnishi et al.	382	7	
	A86	4,617,458	10/1986	Bryce	235	449	
	A87	4,628,194	12/1986	Dobbins et al.	235	379	
	A88	4,645,936	02/1987	Gorgone	250	556	
	A89	4,653,647	03/1987	Hashimoto	209	534	
	A90	4,658,289	04/1987	Nagano et al.	358	75	
	A91	4,676,343	06/1987	Humble et al.	186	61	
	A92	4,677,682	06/1987	Miyagawa et al.	382	7	
	A93	4,678,072	07/1987	Kobayashi et al.	194	206	
	A94	4,697,071	09/1987	Hiraoka et al.	235	379	
	A95	4,700,368	10/1987	Munn et al.	377	8	
	A96	4,716,456	12/1987	Hosaka	358	75	
	A97	4,733,308	03/1988	Nakamura et al.	358	496	

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				Attorney Docket No.: 47171-00350USC1			
Sheet 5 of 13							
U.S. PATENT DOCUMENTS (continued)							
Examiner Initial	Ref.	Document Number	Date	Name	Class	Sub-Class	Filing Date (if Application)
A-7	A98	4,735,289	04/1988	Kenyon	186	37	
	A99	4,743,974	05/1988	Lockwood	358	285	
	A100	4,748,679	05/1988	Gold et al.	382	61	
	A101	4,749,087	06/1988	Buttifiant	209	534	
	A102	4,753,625	06/1988	Okada	453	32	
	A103	4,764,976	08/1988	Kallin et al.	382	65	
	A104	4,782,328	11/1988	Denlinger	340	365	
	A105	4,784,274	11/1988	Mori et al.	209	534	
	A106	4,803,347	02/1989	Sugahara et al.	235	379	
	A107	4,806,709	02/1989	Evans	178	19	
	A108	4,811,004	03/1989	Person et al.	340	712	
	A109	4,821,332	04/1989	Durham	382	7	
	A110	4,823,393	04/1989	Kawakami	382	7	
	A111	4,825,246	04/1989	Fukuchi et al.	355	4	
	A112	4,827,531	05/1989	Milford	382	7	
	A113	4,837,842	06/1989	Holt	382	26	
	A114	4,841,358	06/1989	Kaminoto et al.	358	75	
	A115	4,851,616	07/1989	Wales et al.	178	18	
	A116	4,877,230	10/1989	Winkler et al.	271	3	
	A117	4,880,096	11/1989	Kobayashi et al.	194	206	
	A118	4,881,268	11/1989	Uchida et al.	382	7	
	A119	4,883,181	11/1989	Yoshikawa	209	534	
	A120	4,888,812	12/1989	Dinan et al.	382	7	
✓	A121	4,903,953	02/1990	Winkler et al.	271	4	

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				Attorney Docket No.: 47171-00350USC1			
Sheet 6 of 13							
U.S. PATENT DOCUMENTS (continued)							
Examiner Initial	Ref.	Document Number	Date	Name	Class	Sub-Class	Filing Date (if Application)
A-T	A122	4,905,840	03/1990	Yuge et al.	209	534	
	A123	4,908,516	03/1990	West	250	556	
	A124	4,922,109	05/1990	Bercovitz et al.	194	207	
	A125	4,928,094	05/1990	Smith	340	712	
	A126	4,931,782	06/1990	Jackson	340	706	
	A127	4,954,697	09/1990	Kokubun et al.	235	381	
	A128	4,970,655	11/1990	Winn et al.	364	479	
	A129	4,973,851	11/1990	Lee	250	556	
	A130	4,980,543	12/1990	Hara et al.	209	534	
	A131	4,992,860	02/1991	Hamaguchi et al.	358	75	
	A132	4,996,604	02/1991	Ogawa et al.	358	486	
	A133	5,023,782	06/1991	Lutz et al.	364	405	
	A134	5,027,415	06/1991	Hara et al.	382	7	
	A135	5,047,871	09/1991	Meyer et al.	358	486	
	A136	5,054,621	10/1991	Murphy et al.	209	534	
A137	5,055,834	10/1991	Chiba	340	825		
A138	5,063,599	11/1991	Concannon et al.	382	7		
A139	5,068,519	11/1991	Bryce	235	449		
A140	5,076,441	12/1991	Gerlier	209	534		
A141	5,091,961	02/1992	Baus, Jr.	382	7		
A142	5,105,601	04/1992	Horiguchi et al.	53	465		
A143	5,114,381	05/1992	Ueda et al.	453	57		
V	A144	5,120,944	06/1992	Kern et al.	235	379	
	A145	5,122,754	06/1992	Gotaas	324	676	

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Sheet 7 of 13				Attorney Docket No.: 47171-00350USC1			
<b>U.S. PATENT DOCUMENTS (continued)</b>							
Examiner Initial	Ref.	Document Number	Date	Name	Class	Sub-Class	Filing Date (if Application)
A-7	A146	5,134,663	07/1992	Kozlowski	382	7	
	A147	5,135,115	08/1992	Miller et al.	209	564	
	A148	5,144,115	09/1992	Yoshida	235	379	
	A149	5,146,512	09/1992	Weideman et al.	382	30	
	A150	5,151,607	09/1992	Crane	250	556	
	A151	5,154,272	10/1992	Nishiumi et al.	194	318	
	A152	5,159,548	10/1992	Caslavka	364	408	
	A153	5,163,672	11/1992	Mennic	271	187	
	A154	5,163,868	11/1992	Adams et al.	453	11	
	A155	5,167,313	12/1992	Dobbins et al.	194	317	
	A156	5,183,142	02/1993	Katchinian et al.	194	206	
	A157	5,184,115	02/1993	Black et al.	340	708	
	A158	5,184,709	02/1993	Nishiumi et al.	194	318	
	A159	5,186,334	02/1993	Fukudome et al.	209	534	
	A160	5,187,750	02/1993	Behera	382	7	
	A161	5,193,121	03/1993	Elisch et al.	382	7	
	A162	5,198,976	03/1993	Form et al.	364	410	
	A163	5,199,543	04/1993	Kamagami et al.	194	207	
	A164	5,201,395	04/1993	Takizawa et al.	194	206	
	A165	5,207,788	05/1993	Geib et al.	271	122	
	A166	5,231,381	07/1993	Duwaer	340	712	
	A167	5,237,158	08/1993	Kern et al.	235	379	
	A168	5,239,593	08/1993	Wittner et al.	382	14	
	A169	5,261,518	11/1993	Bryce	194	206	

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Sheer 8 of 13				Attorney Docket No.: 47171-00350USC1			
U.S. PATENT DOCUMENTS (continued)							
Examiner Initial	Ref.	Document Number	Date	Name	Class	Sub-Class	Filing Date (if Application)
A-T	A170	5,286,954	02/1994	Sato et al.	235	379	
	A171	5,295,196	03/1994	Rateman et al.	382	135	
	A172	5,297,030	03/1994	Vassigh et al.	364	405	
	A173	5,299,977	04/1994	Mazur et al.	453	10	
	A174	5,304,813	04/1994	DeMan	250	556	
	A175	5,309,515	05/1994	Troung et al.	382	7	
	A176	5,317,140	05/1994	Dunthorn	250	221	
	A177	5,321,238	06/1994	Kamata et al.	235	379	
	A178	5,335,292	08/1994	Lovelady et al.	382	17	
	A179	5,341,408	08/1994	Melcher et al.	377	8	
	A180	5,342,165	08/1994	Graef et al.	414	788.9	
	A181	5,363,949	11/1994	Matsubayashi	194	206	
	A182	5,367,577	11/1994	Gotaas	382	7	
	A183	5,371,345	12/1994	LeStrange et al.	235	380	
	A184	5,371,798	12/1994	McWhortor	380	51	
	A185	5,373,550	12/1994	Campbell et al.	379	100	
	A186	5,379,344	01/1995	Larson et al.	380	23	
	A187	5,381,019	01/1995	Sato	250	556	
	A188	5,430,664	07/1995	Cargill et al.	364	550	
	A189	5,437,357	08/1995	Ota et al.	194	206	
	A190	5,438,184	08/1995	Roberts et al.	235	380	
	A191	5,444,793	08/1995	Kelland	382	138	
	A192	5,444,794	08/1995	Uhland, Sr.	382	137	
✓	A193	5,459,304	10/1995	Eisenmann	235	380	

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U.S. PATENT DOCUMENTS (continued)							
Examiner Initial	Ref.	Document Number	Date	Name	Class	Sub-Class	Filing Date (if Application)
A-T	A194	5,465,301	11/1995	Jotcham et al.	380	54	
	A195	5,465,821	11/1995	Akioka	194	207	
	A196	5,467,405	11/1995	Rateman et al.	382	135	
	A197	5,467,406	11/1995	Graves et al.	382	135	
	A198	5,488,671	01/1996	Kern	382	138	
	A199	5,504,822	04/1996	Holt	382	218	
	A200	5,506,691	04/1996	Bodnar et al.	358	402	
	A201	5,530,772	06/1996	Storey	382	135	
	A202	5,537,486	07/1996	Stratigos et al.	382	137	
	A203	5,544,043	08/1996	Miki et al.	364	406	
	A204	5,564,546	10/1996	Molbak et al.	194	216	
	A205	5,586,036	12/1996	Pintsov	364	464	
	A206	5,592,377	01/1997	Lipkin	395	242	
	A207	5,600,732	02/1997	Ott et al.	382	112	
	A208	5,602,933	02/1997	Blackwell et al.	382	116	
	A209	5,602,936	02/1997	Green et al.	382	140	
	A210	5,607,040	03/1997	Mathurin, Sr.	194	207	
	A211	5,620,079	04/1997	Molbak	194	217	
	A212	5,633,949	05/1997	Graves et al.	382	135	
	A213	5,640,463	06/1997	Csulits	382	135	
	A214	5,652,802	07/1997	Graves et al.	382	135	
	A215	5,687,963	11/1997	Mennie	271	119	
	A216	5,790,697	08/1998	Munro et al.	382	135	
	A217	5,799,767	09/1998	Molbak	194	217	
✓	A218	5,830,054	11/1998	Petri	453	5	

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				First Named Inventor: John E. Jones			
				Group Art Unit: Not Assigned			
				Examiner: Not Assigned			
Sheet 10 of 13				Attorney Docket No.: 47171-00350USC1			
U.S. PATENT DOCUMENTS (continued)							
Examiner Initial	Ref.	Document Number	Date	Name	Class	Sub-Class	Filing Date (if Application)
A-T	A219	5,852,811	12/1998	Atkins	705	36	
A-T	A220	5,926,550	07/1999	Davis	380	25	
A-T	A221	6,021,883	02/2000	Casanova et al.	194	217	
A-T	A222	6,023,684	02/2000	Pearson	705	35	
FOREIGN PATENT DOCUMENTS							
Examiner Initial	Ref.	Document Number	Date	Country	Class	Sub-Class	Translation Yes/No
A-T	B1	EP 0 077 464	04/1983	Europe	G03H	1/08	No
	B2	EP 0 101 115	02/1984	Europe	G07D	7/00	N/A
	B3	EP 0 109 743	05/1984	Europe	G07D	1/00	N/A
	B4	EP 0 185 200	06/1986	Europe			N/A
	B5	EP 0 253 935	01/1988	Europe	G06K	7/10	
	B6	EP 0 325 364	07/1989	Europe	H04N	1/46	N/A
	B7	EP 0 338 123	10/1989	Europe	G07D	7/00	
	B8	EP 0 342 647	11/1989	Europe	G07D	7/00	
	B9	EP 0 402 627	12/1990	Europe			
	B10	EP 0 578 875	01/1994	Europe			N/A
	B11	EP 0 583 526	02/1994	Europe	G06K	7/00	N/A
	B12	EP 0 583 723	02/1994	Europe	G06K	7/00	N/A
	B13	EP 0 613 107	08/1994	Europe			
	B14	EP 0 633 552	01/1995	Europe			
	B15	EP 0 633 553	02/1995	Europe			N/A
	B16	WO 90/07165	06/1990	International	G07D	7/00	N/A
	B17	WO 91/11778	08/1991	International	G06K	9/00	N/A
✓	B18	WO 92/17394	10/1992	International			

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Sheet 1 of 13				Attorney Docket No.: 47171-00350USC1			
<b>FOREIGN PATENT DOCUMENTS (continued)</b>							
Examiner Initial	Ref.	Document Number	Date	Country	Class	Sub-Class	Translation Yes/No
A-T	B19	WO 93/23824	11/1993	International	G06K	9/00	N/A
	B20	WO 94/16412	07/1994	International	G07D	7/00	
	B21	WO 94/19773	09/1994	International	G07D	7/00	N/A
	B22	WO 95/24691	03/1995	International	G06K	9/00	N/A
	B23	WO 96/10800	09/1995	International	G06K	9/00	N/A
	B24	WO 96/36933	11/1996	International	G06K	9/00	N/A
	B25	WO 98/24041	06/1998	International	G06F	17/60	N/A
	B26	WO 98/48383	10/1998	International	G07D	1/00	
	B27	WO 98/48384	10/1998	International	G07D	1/00	
	B28	WO 98/48385	10/1998	International	G07D	1/00	
	B29	WO 98/51082	11/1998	International	H04N	7/18	
	B30	WO 99/00776	01/1999	International	G07F	9/06	
	B31	GB 2 190 996	12/1987	U.K.	G06K	5/00	N/A
	B32	GB 2 204 166	11/1988	U.K.	G06M	9/02	N/A
✓	B33	GB 2 272 762	05/1994	U.K.	G01N	21/88	N/A
<b>OTHER DOCUMENTS (including author, title, date, pertinent pages, etc.)</b>							
Examiner Initial	Ref.	Document Information					
A-T	C1	AFB Currency Recognition System (1982)					
	C2	Barton, Louis L., "Check Processing Operations," Chapter 8 and Appendix 2, pp. 119-140 and 225-231 (1994)					
	C3	Brandt, Mach 7 High-Speed Coin Sorter/Counter, 2 pages (April 1, 1993)					
	C4	Brandt, Model 8904 Upfeed, High Speed 4-Denomination Currency Dispenser, 2 pages (date prior to May 1996)					
✓	C5	Cash Depositing System CDS 5700 and CDS 5800 (January 3, 1995)					
✓	C6	Cash Receipt System CRS/6501/CRS6510, IREIS (February 1995)					

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		Attorney Docket No.: 47171-00350USC1
Sheet 12 of 13		
OTHER DOCUMENTS (including author, title, date, pertinent pages, etc.) (continued)		
Examiner Initial	Ref.	Document Information
A-T	C7	Cassius Elston, "No More Lines . . . Self Serve Cash-Out," Drop Stream Developments, pp. 3-4 (date prior to May 13, 1996)
	C8	Contomat (date prior to May 13, 1996)
	C9	Cummins-Allison Corp., Operating Instructions for JetScan Currency Scanner/Counter, Model 4061 (April 20, 1993)
	C10	Cummins-Allison Corp., Operating Instructions for JetScan Currency Scanner/Counter, Model 4062 (November 28, 1994)
	C11	Cummins-Allison Corp., Operating Instructions for JetSort® High Speed Sorter/Counter (Kits I & J), 11 pages (1993)
	C12	Cummins-Allison Corp., Operator's Manual for JetScan Currency Scanner/Counter, Model 4060 (August 1991)
	C13	Cummins-Allison Corp., Sale of JetScan Currency Scanner/Counter, Model 4060 (August 1991)
	C14	Cummins-Allison Corp., Sale of JetScan Currency Scanner/Counter, Model 4061 (April 20, 1993)
	C15	Cummins-Allison Corp., Sale of JetScan Currency Scanner/Counter, Model 4062 (November 28, 1994)
	C16	Currency Systems International, CPS 600 and CPS 900 (estimated 1994)
	C17	Currency Systems International, Medium Speed Currency Sorting Family, CPS 600 and CPS 900, 4 pages (1994)
	C18	Currency Systems International, Mr. W. Kranister in Conversation With Richard Haycock, pp. 1-5 (estimated 1994)
	C19	Currency Systems International/Currency Processing Systems, CPS 300, 4 pages (1992)
	C20	De La Rue Garmy GmbH, Cash Depositing Systems CDS 5700 and CDS 5800 (date unknown, with translation)
	C21	Glory, General Catalog of Products, System 8000 at page 5 (1996, with translation)
	C22	Glory, GFB-200/210/220/230, Desk-Top Bank Note Counter, 2 pages (estimated date prior to August 9, 1994)
	C23	Glory, GSA-500 Sortmaster, 2 pages (January 14, 1994)
	C24	Glory, The New CRS-8000 Cash Redemption System (date prior to May 13, 1996)
	C25	Glory, UF-1D, 2 pages (estimated date prior to August 9, 1994)
	C26	ISH 12005/500 SB-Münzähler (date prior to May 13, 1996, with translation)
	C27	Mosler, Inc., "The Mosler/Toshiba CF-420" (1989)
	C28	NGZ 2100 (date prior to May 13, 1996)
	C29	PREMA 405(RE) Self Service Coin Deposit Facility (date prior to May 13, 1996)

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Sheet 13 of 13		Attorney Docket No.:	47171-00350USC1
OTHER DOCUMENTS (including author, title, date, pertinent pages, etc.) (continued)			
Examiner Initial	Ref.	Document Information	
A-T	C30	Scan Coin CDS 600 Cash Deposit System (June 15, 1994)	
A-T	C31	Scan Coin CDS 640 Cash Deposit System (June 15, 1994)	
A-T	C32	Toshiba-Mosler, CF-420 (estimated 1989)	
A-T	C33	Toshiba-Mosler, Operator's Manual for CF-420 Cash Settlement System, pp. 1-C-3 (1989)	
A-T	C34	Toshiba-Mosler, revised drawings of portions of CF-420 Cash Management System (FIGS. A-C) and description of same (1989)	
A-T	C35	Vector Videotape (no date)	
EXAMINER <i>Abol Farzi Tahatabei</i>		DATE CONSIDERED <i>4/14/05</i>	

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